

SEQUENCE LISTING

<110> NISHIMURA, Asuka
MATSUOKA, Makoto
ASHIKARI, Motoyoki

<120> GENES THAT CONFER REGENERATION ABILITY
TO PLANTS, AND USES THEREOF (AS AMENDED)

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Asp Ala Trp Val Pro Gly Asp Asp Ile Ile Pro Val Cys Lys Ala Val
315 320 325

ctc gag gcg tac cgc gac ctc ggc acc agg ggc aac cgc cag aag acc
1544
Leu Glu Ala Tyr Arg Asp Leu Gly Thr Arg Gly Asn Arg Gln Lys Thr
330 335 340

cgc atg atg tgg ctc atc gac gaa ctt gga atg gag gct ttt cgg tcg
1592
Arg Met Met Trp Leu Ile Asp Glu Leu Gly Met Glu Ala Phe Arg Ser
345 350 355

gag gtg gag aag agg atg ccg aac ggc gtg ctg gag cgc gcg gcg ccg
1640
Glu Val Glu Lys Arg Met Pro Asn Gly Val Leu Glu Arg Ala Ala Pro
360 365 370

gag gac ctc atc gac aag aaa tgg cag agg agg gac tac ctc ggc gtg
1688
Glu Asp Leu Ile Asp Lys Lys Trp Gln Arg Arg Asp Tyr Leu Gly Val
375 380 385 390

cac ccg cag aag cag gaa ggg atg tcc tac gtc ggc ctg cac gtg ccc
1736
His Pro Gln Lys Gln Glu Gly Met Ser Tyr Val Gly Leu His Val Pro
395 400 405

gtc ggc cgg gtg cag gcg gcg gac atg ttc gag ctc gca cgc ctc gcc
1784
Val Gly Arg Val Gln Ala Ala Asp Met Phe Glu Leu Ala Arg Leu Ala
410 415 420

gac gag tac ggc tcc ggc gag ctc cgc ctc acc gtg gag cag aac atc
1832
Asp Glu Tyr Gly Ser Gly Glu Leu Arg Leu Thr Val Glu Gln Asn Ile
425 430 435

gtg atc ccg aac gtc aag aac gag aag gtg gag gcg ctg ctc tcc gag
1880
Val Ile Pro Asn Val Lys Asn Glu Lys Val Glu Ala Leu Leu Ser Glu
440 445 450

ccg ctg ctt cag aag ttc tcc ccg cag ccg tcg ctg ctg ctc aag ggc
1928
Pro Leu Leu Gln Lys Phe Ser Pro Gln Pro Ser Leu Leu Leu Lys Gly
455 460 465 470

ctc gtc gcg tgc acc ggc aac cag ttc tgc ggc cag gcc atc atc gag
1976
Leu Val Ala Cys Thr Gly Asn Gln Phe Cys Gly Gln Ala Ile Ile Glu
475 480 485

acg aag cag cgg gcg ctg ctg gtg acg tcg cag gtg gag aag ctc gtg
2024
Thr Lys Gln Arg Ala Leu Leu Val Thr Ser Gln Val Glu Lys Leu Val
490 495 500

tcg gtg ccc cgg gcg gtg cgg atg cac tgg acc ggc tgc ccc aac agc
2072
Ser Val Pro Arg Ala Val Arg Met His Trp Thr Gly Cys Pro Asn Ser
505 510 515

tgc ggc cag gtg cag gtc gcc gac atc ggc ttc atg ggc tgc ctc acc
2120

Cys Gly Gln Val Gln Val Ala Asp Ile Gly Phe Met Gly Cys Leu Thr
520 525 530

aag gac agc gcc ggc aag atc gtt gag gcg gcc gac atc ttc gtc ggc
2168

Lys Asp Ser Ala Gly Lys Ile Val Glu Ala Ala Asp Ile Phe Val Gly
535 540 545 550

ggc cgc gtc ggc agc gac tcg cac ctc gcc ggc gcg tac aag aag tcc
2216

Gly Arg Val Gly Ser Asp Ser His Leu Ala Gly Ala Tyr Lys Lys Ser
555 560 565

gtg ccg tgc gac gag ctg gcg ccg atc gtc gcc gac atc ctg gtc gag
2264

Val Pro Cys Asp Glu Leu Ala Pro Ile Val Ala Asp Ile Leu Val Glu
570 575 580

cgg ttc ggg gcc gtg cgg agg gag agg gag gag gac gag gag tag
2309

Arg Phe Gly Ala Val Arg Arg Glu Arg Glu Glu Asp Glu Glu
585 590 595

gaacacagac tgggggtgttt tgcttgctcc ggtgatctct cgccgtcctt gtaaagtaga
2369

cgacaatatg ccttcgcccc tggcacgctt gtactgtcac gttttgggttt gatctttag
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2508

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<400> 6
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20 25 30

Gln Ser Ser Thr Val Ser Ala Pro Ser Ser Ser Thr Pro Ala Ala Asp
35 40 45

Glu Ala Val Ser Ala Glu Arg Leu Glu Pro Arg Val Glu Gln Arg Glu
50 55 60

Gly Arg Tyr Trp Val Leu Lys Glu Lys Tyr Arg Thr Gly Leu Asn Pro
65 70 75 80

Gln Glu Lys Val Lys Leu Gly Lys Glu Pro Met Ser Leu Phe Met Glu
85 90 95

Gly	Gly	Ile	Lys	Glu	Leu	Ala	Lys	Met	Pro	Met	Glu	Glu	Ile	Glu	Ala	100	105	110
Asp	Lys	Leu	Ser	Lys	Glu	Asp	Ile	Asp	Val	Arg	Leu	Lys	Trp	Leu	Gly	115	120	125
Leu	Phe	His	Arg	Arg	Lys	His	Gln	Tyr	Gly	Arg	Phe	Met	Met	Arg	Leu	130	135	140
Lys	Leu	Pro	Asn	Gly	Val	Thr	Thr	Ser	Glu	Gln	Thr	Arg	Tyr	Leu	Ala	145	150	155
Ser	Val	Ile	Glu	Ala	Tyr	Gly	Lys	Glu	Gly	Cys	Ala	Asp	Val	Thr	Thr	165	170	175
Arg	Gln	Asn	Trp	Gln	Ile	Arg	Gly	Val	Thr	Leu	Pro	Asp	Val	Pro	Ala	180	185	190
Ile	Leu	Asp	Gly	Leu	Asn	Ala	Val	Gly	Leu	Thr	Ser	Leu	Gln	Ser	Gly	195	200	205
Met	Asp	Asn	Val	Arg	Asn	Pro	Val	Gly	Asn	Pro	Leu	Ala	Gly	Ile	Asp	210	215	220
Pro	Asp	Glu	Ile	Val	Asp	Thr	Arg	Ser	Tyr	Thr	Asn	Leu	Leu	Ser	Ser	225	230	235
Tyr	Ile	Thr	Ser	Asn	Phe	Gln	Gly	Asn	Pro	Thr	Ile	Thr	Asn	Leu	Pro	245	250	255
Arg	Lys	Trp	Asn	Val	Cys	Val	Ile	Gly	Ser	His	Asp	Leu	Tyr	Glu	His	260	265	270
Pro	His	Ile	Asn	Asp	Leu	Ala	Tyr	Met	Pro	Ala	Val	Lys	Gly	Gly	Lys	275	280	285
Phe	Gly	Phe	Asn	Leu	Leu	Val	Gly	Gly	Phe	Ile	Ser	Pro	Lys	Arg	Trp	290	295	300
Glu	Glu	Ala	Leu	Pro	Leu	Asp	Ala	Trp	Val	Pro	Gly	Asp	Asp	Ile	Ile	305	310	315
Pro	Val	Cys	Lys	Ala	Val	Leu	Glu	Ala	Tyr	Arg	Asp	Leu	Gly	Thr	Arg	325	330	335
Gly	Asn	Arg	Gln	Lys	Thr	Arg	Met	Met	Trp	Leu	Ile	Asp	Glu	Leu	Gly	340	345	350
Met	Glu	Ala	Phe	Arg	Ser	Glu	Val	Glu	Lys	Arg	Met	Pro	Asn	Gly	Val	355	360	365
Leu	Glu	Arg	Ala	Ala	Pro	Glu	Asp	Leu	Ile	Asp	Lys	Lys	Trp	Gln	Arg	370	375	380
Arg	Asp	Tyr	Leu	Gly	Val	His	Pro	Gln	Lys	Gln	Glu	Gly	Met	Ser	Tyr	385	390	395
Val	Gly	Leu	His	Val	Pro	Val	Gly	Arg	Val	Gln	Ala	Ala	Asp	Met	Phe	405	410	415

Glu Leu Ala Arg Leu Ala Asp Glu Tyr Gly Ser Gly Glu Leu Arg Leu
420 425 430

Thr Val Glu Gln Asn Ile Val Ile Pro Asn Val Lys Asn Glu Lys Val
435 440 445

Glu Ala Leu Leu Ser Glu Pro Leu Leu Gln Lys Phe Ser Pro Gln Pro
450 455 460

Ser Leu Leu Leu Lys Gly Leu Val Ala Cys Thr Gly Asn Gln Phe Cys
465 470 475 480

Gly Gln Ala Ile Ile Glu Thr Lys Gln Arg Ala Leu Leu Val Thr Ser
485 490 495

Gln Val Glu Lys Leu Val Ser Val Pro Arg Ala Val Arg Met His Trp
500 505 510

Thr Gly Cys Pro Asn Ser Cys Gly Gln Val Gln Val Ala Asp Ile Gly
515 520 525

Phe Met Gly Cys Leu Thr Lys Asp Ser Ala Gly Lys Ile Val Glu Ala
530 535 540

Ala Asp Ile Phe Val Gly Gly Arg Val Gly Ser Asp Ser His Leu Ala
545 550 555 560

Gly Ala Tyr Lys Lys Ser Val Pro Cys Asp Glu Leu Ala Pro Ile Val
565 570 575

Ala Asp Ile Leu Val Glu Arg Phe Gly Ala Val Arg Arg Glu Arg Glu
580 585 590

Glu Asp Glu Glu
595